

IN THE CLAIMS:

1. (currently amended) A method of producing a non-aqueous electrolyte secondary battery, comprising the steps of: assembling and sealing together a having the positive electrode, a negative electrode, an electrolytic solution containing a non-aqueous solvent and a supporting salt, a separator and a gasket to form a non-aqueous electrolyte secondary battery; heating the non-aqueous electrolyte secondary battery; and screening the non-aqueous electrolyte secondary battery for abnormalities as the heating temperature of the non-aqueous electrolyte secondary battery rises during the heating step. ~~gasket, comprising a step of assembling and sealing said positive electrode, negative electrode, non-aqueous solvent, electrolytic solution, separator and gasket in said non-aqueous electrolyte secondary battery by caulking, and step of heating.~~

2. (currently amended) ~~The~~ A method of producing a non-aqueous electrolyte secondary battery according to claim 1; wherein the heating step comprises gradually heating the non-aqueous electrolyte secondary battery. ~~Claim 1, wherein said battery is provided with connecting terminals by welding to connect itself to an outside device.~~

3. (currently amended) ~~The~~ A method of producing a non-aqueous electrolyte secondary battery according to claim 1; wherein the heating step comprises heating the non-aqueous electrolyte secondary battery at a temperature in the range of ~~Claim 1, wherein said battery is heated at 180 to 300°C in the heating step.~~

4. (currently amended) A method of mounting a non-aqueous electrolyte secondary battery on a circuit substrate, comprising the steps of: assembling and sealing together a ~~a step of assembling and sealing the positive electrode, a negative electrode, a non-aqueous solvent, an electrolytic solution, a separator and a gasket to form a in said non-~~ aqueous electrolyte secondary battery; heating the non-aqueous electrolyte secondary battery; screening the non-aqueous electrolyte secondary battery for abnormalities as the heating temperature of the non-aqueous electrolyte secondary battery rises during the heating step; and mounting the ~~by caulking, step of heating, and reflow soldering step to mount said non-~~ aqueous electrolyte secondary battery on a said circuit substrate ~~by reflow soldering on which it is set.~~

5. (currently amended) ~~The~~ A method according to claim 4; wherein the heating step comprises gradually heating the non-aqueous electrolyte secondary battery. ~~of mounting a non aqueous electrolyte secondary battery according to Claim~~

~~4, which comprises a step of welding connecting terminals to said battery, after it is assembled.~~

6. (currently amended) The A method according to claim 4; wherein a temperature of mounting a non aqueous electrolyte secondary battery according to Claim 4, wherein the difference between the a temperature-time profile during of the heating step and a temperature-time profile of that during the reflow soldering step is within  $\pm 50\%$  in a heating region of 0 to 150°C.

7. (currently amended) The A method according to claim 4; wherein a of mounting a non aqueous electrolyte secondary battery according to Claim 4, wherein the difference between a duration of the heating step time and a duration of the reflow soldering step time is within  $\pm 50\%$  in a heating region of 0 to 150°C.

8. (currently amended) The A method according to claim 4; wherein a temperature of mounting a non aqueous electrolyte secondary battery according to Claim 4, wherein the difference between the a temperature-time profile during of the heating step and that a temperature-time profile of during the reflow soldering step is within  $\pm 20\%$  in a heating region of 150 to 180°C.

9. (currently amended) The A method according to claim 4; wherein a ~~of mounting a non-aqueous electrolyte secondary battery according to Claim 4, wherein the difference between a duration of the heating step time and a duration of the reflow soldering step time is within  $\pm 20\%$  in a heating region of 150 to 180°C.~~

10. (currently amended) The A method according to claim 4; wherein a temperature ~~of mounting a non-aqueous electrolyte secondary battery according to Claim 4, wherein the difference between the a temperature-time profile during of the heating step and that a temperature-time profile of during the reflow soldering step is within  $\pm 10\%$  in a heating region of 180 to 300°C.~~

11. (currently amended) The A method according to claim 4; wherein a ~~of mounting a non-aqueous electrolyte secondary battery according to Claim 4, wherein the difference between a duration of the heating step time and a duration of the reflow soldering step time is within  $\pm 10\%$  in a heating region of 180 to 300°C.~~

12. - 32. (canceled)

33. (new) A method of producing a non-aqueous electrolyte secondary battery according to claim 1; wherein the sealing step comprises sealing the positive electrode, negative electrode, electrolytic solution, separator and gasket by caulking.

34. (new) A method according to claim 4; wherein the sealing step comprises sealing the positive electrode, negative electrode, non-aqueous solvent, electrolytic solution, separator and gasket by caulking.

35. (new) A method of fabricating a non-aqueous electrolyte secondary battery, comprising the steps of:

assembling and sealing together a positive electrode, a negative electrode, an electrolytic solution containing a non-aqueous solvent and a supporting salt, a separator and a gasket to form a non-aqueous electrolyte secondary battery;

heating the non-aqueous electrolyte secondary battery using a preselected temperature-time profile so that the non-aqueous electrolyte secondary battery is resistant to the reflow temperature during a subsequent reflow soldering; and

screening the non-aqueous electrolyte secondary battery for abnormalities as the heating temperature of the

non-aqueous electrolyte secondary battery rises during the heating step.

36. (new) A method according to claim 35; wherein the heating step comprises gradually heating the non-aqueous electrolyte secondary battery.

37. (new) A method according to claim 35; wherein the heating step comprises heating the non-aqueous electrolyte secondary battery at a temperature in the range of 180 to 300°C.

38. (new) A method of mounting a non-aqueous electrolyte secondary battery on a circuit substrate, comprising the steps of: fabricating a non-aqueous electrolyte secondary battery according to claim 35; and mounting the non-aqueous electrolyte secondary battery on a circuit substrate by reflow soldering while maintaining a temperature difference between the preselected temperature-time profile of the heating step and a temperature-time profile during reflow soldering to within  $\pm 50\%$  in a heating region of 0 to 150°C.

39. (new) A method of mounting a non-aqueous electrolyte secondary battery on a circuit substrate, comprising the steps of: fabricating a non-aqueous electrolyte secondary battery according to claim 35; and mounting the non-aqueous electrolyte secondary battery on a circuit substrate

by reflow soldering while maintaining a temperature difference between the preselected temperature-time profile of the heating step and a temperature-time profile during reflow soldering to within  $\pm 20\%$  in a heating region of 150 to 180°C.

40. (new) A method of mounting a non-aqueous electrolyte secondary battery on a circuit substrate, comprising the steps of: fabricating a non-aqueous electrolyte secondary battery according to claim 35; and mounting the non-aqueous electrolyte secondary battery on a circuit substrate by reflow soldering while maintaining a temperature difference between the preselected temperature-time profile of the heating step and a temperature-time profile during reflow soldering to within  $\pm 10\%$  in a heating region of 180 to 300°C.